

化 学 品 安 全 技 术 说 明 书

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MSDS标题

LITHIUM ALUMINIUM HYDRIDE MSDS报告

产品标题

四氢铝锂;四氢化铝锂;(T-4)-四氢铝酸锂;氢化锂铝

CAS号

16853-85-3

化学品及企业标识

PRODUCT NAME

LITHIUM ALUMINIUM HYDRIDE

NFPA

Flammability	2
Toxicity	2
Body Contact	3
Reactivity	2
Chronic	0

SCALE: Min/Nil=0 Low=1 Moderate=2 High=3 Extreme=4

PRODUCT USE

Reducing agent for over 60 different functional groups, especially for pharmaceutical, perfume, and fine organic chemicals; source of hydrogen; propellant; catalyst in polymerisations.

SYNONYMS

Al-H4-Li, Li-Al-H4, "lithium aluminum hydride", "lithium aluminum tetrahydride", "lithium aluminium tetrahydride", "lithium tetrahydroaluminate", "aluminate, tetrahydro-, lithium", "lithium aluminohydride", "aluminum lithium hydride", "lithium alanate", LAH

CANADIAN WHMIS SYMBOLS

EMERGENCY OVERVIEW

RISK

Causes burns.

Risk of serious damage to eyes.

Reacts violently with water liberating extremely flammable gases.

Flammable.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Ingestion may result in nausea, abdominal irritation, pain and vomiting. Lithium, in large doses, can cause dizziness and weakness. If a low salt diet is in place, kidney damage can result. There may be dehydration, weight loss, skin effects and thyroid disturbances. Central nervous system effects include slurred speech, blurred vision, numbness, inco-ordination and convulsions. Repeated exposure can cause diarrhea, vomiting, tremor, muscle jerks and very brisk reflexes.

EYE

The material can produce chemical burns to the eye following direct contact. Vapors or mists may be extremely irritating. If applied to the eyes, this material causes severe eye damage.

SKIN

The material can produce chemical burns following direct contact with the skin. Solution of material in moisture on the skin, or perspiration, may markedly increase skin corrosion and accelerate tissue destruction.

INHALED

If inhaled, this material can irritate the throat and lungs of some persons. Persons with impaired respiratory function, airway diseases and conditions

such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. Inhalation of quantities of liquid mist may be extremely hazardous, even lethal due to spasm, extreme irritation of larynx and bronchi, chemical pneumonitis and pulmonary edema.

CHRONIC HEALTH EFFECTS

Principal routes of exposure are by accidental skin and eye contact and inhalation of generated dusts. As with any chemical product, contact with unprotected bare skin; inhalation of vapor, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

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